

Work Order ID 165803

Tuesday, August 29, 2017 3:02:35 PM

165803

Page 1

Item ID: D3172-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Basket Base Assembly
Start Date: 9/5/2017 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 9/15/2017 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: WJ **DAS 21 9-89** Date: AUG 30 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3172	D

100

0.00

100

Large Fab

Large Fab

Memo

20.00

Large Fab

1-Cut Qty 4 D3166-1 as per Dwg D3172

2-Cut 3/4" x 3/4" square tubing as per Dwg D3172

3-Drill holes in D3172-3 as per Dwg D3172

4-Deburr & Remove all markings from material

5-Weld all ribs as per Dwg D3172 using Welding Table

6- Use DT 8996 jig to locate D3174-1 as per dwg

7- Weld D5365-1 as per dwg in (2) locations. From edge of back basket corn (without hinge) to bottom of D5365-1 lug. And (2) located at the front.

8- Weld mesh as per dwg

DML 2017 9-5

1x

**DAS
43
9-89****SEP 12 2017**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
110 *110* QC Quality Control	QC9- Inspect visual per QSI004- Fusion Welds Memo	0.00 0.02				<u>1</u>	SEP 13 2017		DAS 24 9-89
120 *120* QC Quality Control	QC6- All purchased or subcontracted products Memo	0.00 0.02				<u>1</u>	SEP 13 2017		DAS 24 9-89
125 *125* HandFinish Hand Finishing	Pressure Wash per QSI005 4.3 Memo	0.00 0.45							<u>10</u> 17 09-14. 8:39

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Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
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WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location: <u>w/c</u>	0.00							
150									
Packaging	Memo	0.02		0130-701-043/13165745		<u>u</u>	<u>d</u>	<u>all</u>	<u>4109/10</u>
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.10							<u>17/9/25</u> <u>df</u>
Quality Control									



SEP 22 2017

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WORK ORDER NON-CONFORMANCE / UPDATE

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 165803

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Parent Item: D3172-041

D3172-041

Parent Item Name: Basket Base Assembly

Start Date: 9/5/2017

Required Date: 9/15/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B04.01.05Added Step 5 inspectionKJ/RF
IPP Rev:C 08-08-29 revC as per dwg DD verified by:EC IPP Rev:D
11.04.04 added pressure wash DD VERF:EC IPP REV:E 16.11.03 AS
PER DWG REV.D DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D2232-3		Manufactured	No			100	Each	14.0000	2	2			
✓ *D2232-3*									** 157388 x 2			D.M.L 2017-8-31	
Basket Hinge													

Location	Loc Qty	Loc Code
WA004	14	
156858	11	
157388	3	

D2327-3		Manufactured	No			100	Each	23.0000	2	2			
✓ *D2327-3*									** 154190 x 2			D.M.L 2017-8-31	
Spacer Bushing													

Location	Loc Qty	Loc Code
WA004	23	
154190	23	

D2581		Manufactured	No			100	Each	58.0000	2	2			
✓ *D2581*									** 162923			D.M.L 2017-8-31	
Mounting Bracket													

Location	Loc Qty	Loc Code
WA004	58	
161800	10	
162923	20	
164446	28	

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Picklist Print

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Work Order ID: 165803

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Parent Item: D3172-041

D3172-041

Parent Item Name: Basket Base Assembly

Start Date: 9/5/2017

Required Date: 9/15/2017

Start Qty: 1.00

Required Qty: 1.00

D3166-1 Manufactured No

100 Each 20.0000 4 4

✓ *D3166-1*

Basket Hoop

** 160536 x 4 D.M.L 2017-8-31

LocationLoc QtyLoc Code

WA004

20

160536

20

D3174-1 Manufactured No

100 Each 15.0000 8 8

✓ *D3174-1*

Mounting Lug

** 163517 x 8 D.M.L 2017-8-31

LocationLoc QtyLoc Code

WA004

15

158014

7

163517

8

D5365-1 Manufactured No

100 Each 12.0000 4 4

✓ *D5365-1*

Lug

** 8158501 → 4x DAS 43 SEP 06 2017
9-89LocationLoc QtyLoc Code

WA004

12

158501

12

M304EX0.75-16F Purchased No

100 sf 803.9221 48 48

✓ *M304FX0 75-16F*

Expanded Metal Flat SS

** 813868 → 56x DAS 43 SEP 06 2017
9-89LocationLoc QtyLoc Code

WA004

803.9221052

M137765

9.29473684

-- M138128

314.627368

M138390

480

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Shop Packet Print

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OTHER :																																																																				

Picklist Print

Tuesday, August 29, 2017 3:02:35 PM

Page 3

Work Order ID: 165803

165803

Parent Item: D3172-041

D3172-041

Parent Item Name: Basket Base Assembly

Start Date: 9/5/2017

Required Date: 9/15/2017

Start Qty: 1.00

Required Qty: 1.00

M304TS0.750W.065

Purchased

No

100

f

369.1600

51

53.68421

DAS

43

SEP 06 201

9-89

✓ *M304TS0 750W 065*

304 SQ Tube .75x.75x.065W

**

Location

Loc Qty

Loc Code

WA004

369.16

m137065

0.4

m137273

86.76

m137401

82

m138008

200

137273

50

138008

4

L

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



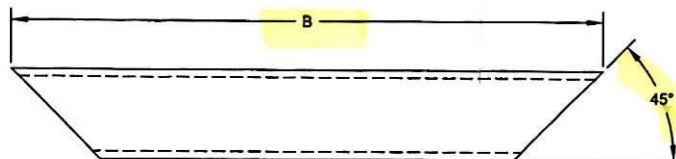
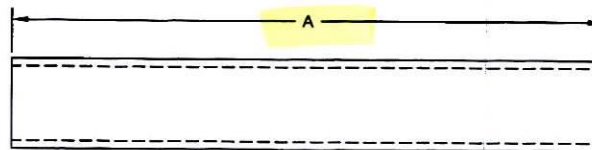
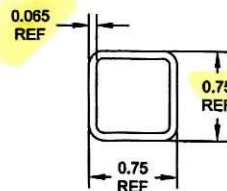
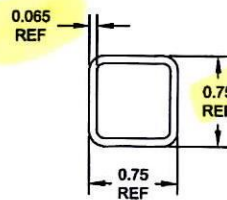
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____											

PARTS LIST FOR D3172-041 BASKET BASE ASSEMBLY

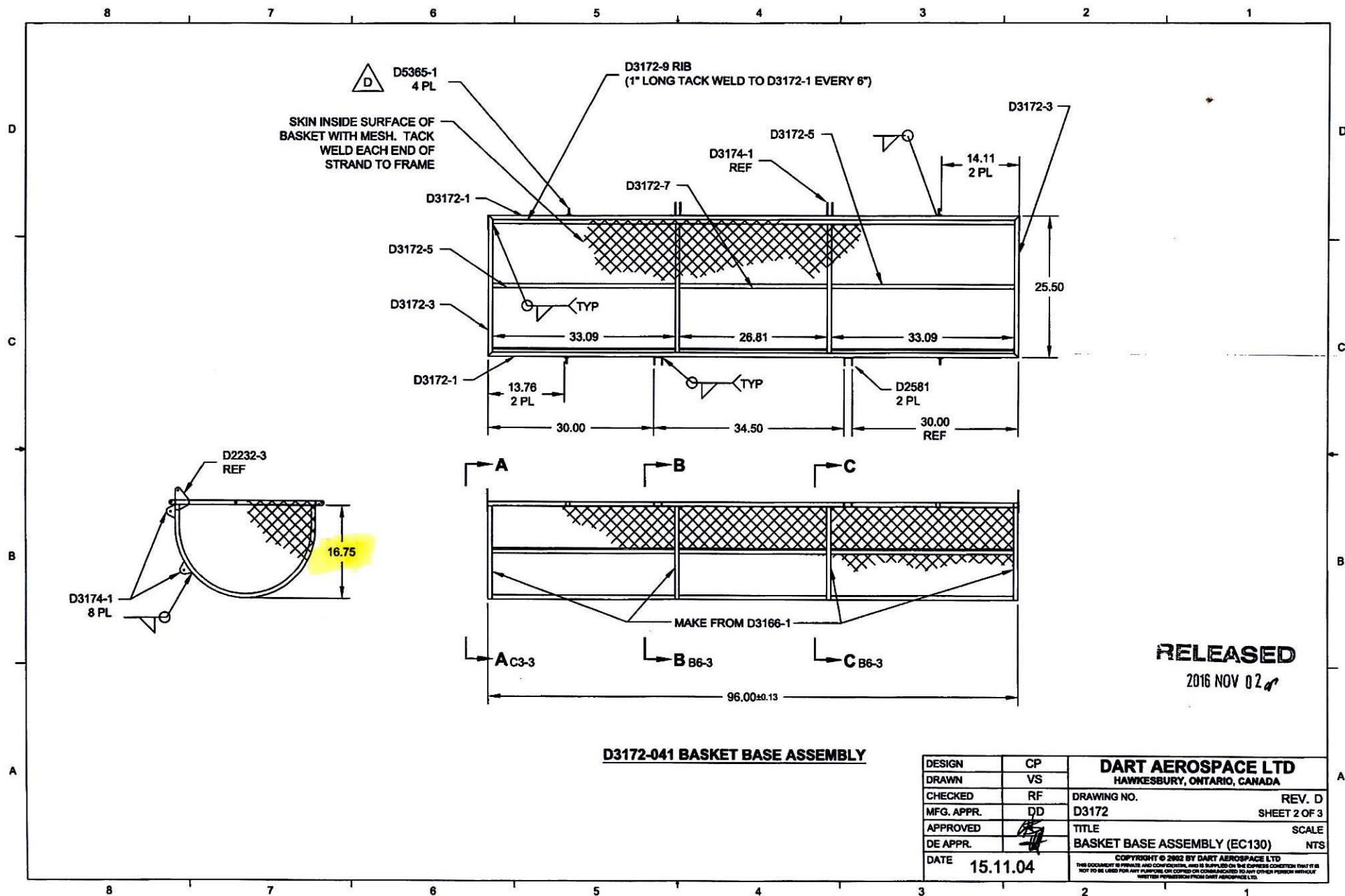
PART NO	QUANTITY	LENGTH A	LENGTH B	DESCRIPTION
D3172-1	2	---	96.00	RIB
D3172-3	2	---	25.50	RIB
D3172-5	6	33.09	---	RIB
D3172-7	3	26.81	---	RIB
D3172-9	1	94.50	N/A	RIB
D2327-3	2	N/A	N/A	BUSHING
D2581	2	N/A	N/A	MOUNTING BRACKET
D2232-3	2	N/A	N/A	HINGE PLATE
D3166-1	4	N/A	N/A	RIB
D3174-1	8	N/A	N/A	MOUNTING LUG
D5365-1	4	N/A	N/A	LUG



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 165803
RELEASED
AUG 30 2017 2016 NOV 02
ECN 16-513

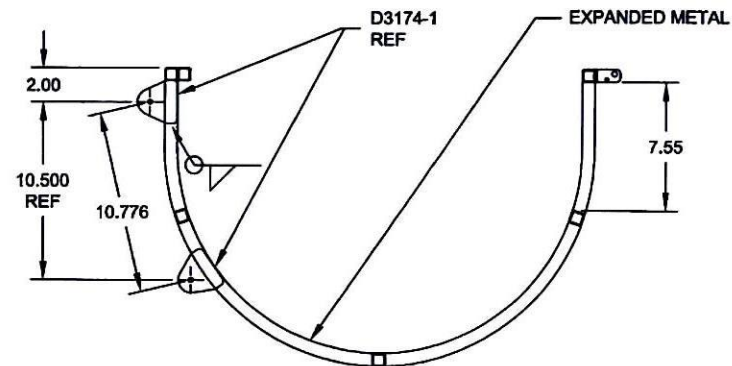
- NOTES:**
- 1) MATERIAL: AISI 304/316 SS, 3/4 X 3/4 X 0.065 WALL SQUARE TUBING
REF. DART SPEC M304TS0.750W.065
 - 2) MESH MATERIAL: 3/4-16F EXPANDED SS
REF. DART SPEC M304EX0.75-16F
 - 3) FINISH: POWDER COAT ENTIRE ASSEMBLY WHITE (4.3.5.2) PER DART QSI 005 4.3
 - 4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 7) IDENTIFICATION: NONE
 - 8) WEIGHT: N/A
 - 9) WELD PER DART QSI 004

D	REPLACED D2012-117 WITH D5365-1 (ZN C6-1, D5-1, C5-2, D3-2, C3-2)	VS	15.11.04
C	FRAME MATERIAL WAS 0.060 WALL MESH MATERIAL UPDATED. DRAWING MOVED TO "B" FORMAT AND UPDATED TO CURRENT STANDARDS.	AJS	08.07.03
B	ADD D3172-9 & D2012-117	CP	03.01.07
A	NEW ISSUE	DS	02.12.02
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. D
MFG. APPR.	DD	D3172	SHEET 1 OF 3
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	BASKET BASE ASSEMBLY (EC130)	NTS
DATE	15.11.04	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



8 7 6 5 4 3 2 1

D



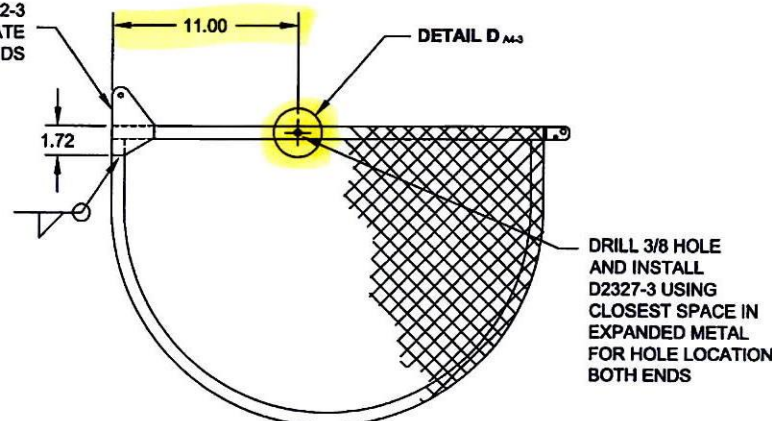
**SECTION B-B^{B5-2}
AND SECTION C-C^{B3-2}**
RIB DETAIL
SCALE 2X

C

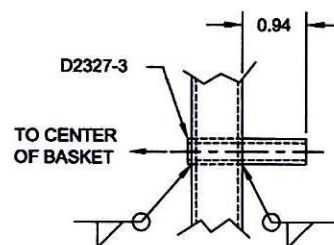
B

A

D2232-3
HINGE PLATE
BOTH ENDS



SECTION A-A^{B5-2}
SPACER DETAIL
SCALE 2X



DETAIL D^{D3-3}
SCALE 4X

RELEASED

2016 NOV 02 *ap*

DESIGN	CP	DART AEROSPACE LTD	
DRAWN	VS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. D
MFG. APPR.	DD	D3172	SHEET 3 OF 3
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BASKET BASE ASSEMBLY (EC130)	NTS
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8 7 6 5 4 3 2 1